ELSEVIER

Respiration Physiology 109 (1997) 273–274

Author Index

Agarwal, M., see Fahy, B.G. 109 (1997) 53.
Agey, P.J., see Mathieu-Costello, O. 109 (1997) 39.
Anderson, S.D., see Högman, M. 109 (1997) 65.
Andrieu-Guitrancourt, J., see Marie, J.P. 109 (1997) 127.
Andrieu-Guitrancourt, J., see Marie, J.P. 109 (1997) 139.

Babb, T.G., Ventilation and respiratory mechanics during exercise in younger subjects breathing CO_2 or HeO_2 109 (1997) 15.
Bamford, O.S., see Schuen, J.N. 109 (1997) 231.
Barnas, G.M., see Fahy, B.G. 109 (1997) 53.
Beasley, D., see Liu, F. 109 (1997) 155.
Bodenant, C., see Marie, J.P. 109 (1997) 127.
Boutellier, U., see Helbling, D. 109 (1997) 219.
Brown, L.V., see Qiu, X.L. 109 (1997) 261.
Brown, R.E., J.P. Butler, J.J. Godleski and S.H. Loring, The elephant's respiratory system: adaptations to gravitational stress 109 (1997) 177.
Butler, J.P., see Brown, R.E. 109 (1997) 177.

Cairo, J.M., see Pellett, A.A. 109 (1997) 249.
Carroll, J.L., see Schuen, J.N. 109 (1997) 231.
Chen, H.F., B.P. Lee and Y.R. Kou, Mechanisms underlying stimulation of rapidly adapting receptors during pulmonary air embolism in dogs 109 (1997) 1.
Chin, K., see Muro, S. 109 (1997) 205.
Coombes, J., see Hodge, K. 109 (1997) 149.
Costello, M.L., see Ponganis, P.J. 109 (1997) 73.

Dehesdin, D., see Marie, J.P. 109 (1997) 127.
Dehesdin, D., see Marie, J.P. 109 (1997) 139.
Delclaux, C., see Heyer, L. 109 (1997) 29.
Demirel, H.A., see Hodge, K. 109 (1997) 149.
Derksen, F.J., see Olszewski, M.A. 109 (1997) 167.
Dodd, S.L., see Hodge, K. 109 (1997) 149.

Fahy, B.G., G.M. Barnas, J.L. Flowers, S.E. Nagle and M. Agarwal, Effects of PEEP on respiratory mechanics are tidal volume and frequency dependent 109 (1997) 53.
Fletcher, L., see Hodge, K. 109 (1997) 149.
Flowers, J.L., see Fahy, B.G. 109 (1997) 53.

Gehr, P., see Im Hof, V. 109 (1997) 81.
Gerber, V., see Im Hof, V. 109 (1997) 81.
Gibon, J.F., see Marie, J.P. 109 (1997) 139.
Godleski, J.J., see Brown, R.E. 109 (1997) 177.
Guz, A., Brain, breathing and breathlessness 109 (1997) 197.

Hahn, C.E.W., see Sainsbury, M.C. 109 (1997) 195.
Harf, A., see Heyer, L. 109 (1997) 29.
Helbling, D., U. Boutellier and C.M. Spengler, Modulation of the ventilatory increase at the onset of exercise in humans 109 (1997) 219.
Hellot, M.F., see Marie, J.P. 109 (1997) 139.
Hémet, J., see Marie, J.P. 109 (1997) 127.
Heyer, L., H. Lorino, C. Delclaux, D. Isabey, A. Harf and F. Lofaso, Carbon dioxide respiratory response during positive inspiratory pressure in COPD patients 109 (1997) 29.
Hjoberg, J., see Högman, M. 109 (1997) 65.
Hodge, K., S.K. Powers, J. Coombes, L. Fletcher, H.A. Demirel, S.L. Dodd and D. Martin, Bioenergetic characteristics of the costal and crural diaphragm in mammals 109 (1997) 149.
Högman, M., J. Hjoberg, A.C. Mörk, G.M. Roomans and S.D. Anderson, Dry gas hyperpnea changes airway reactivity and ion content of rabbit tracheal wall 109 (1997) 65.

Im Hof, V., P. Gehr, V. Gerber, M.M. Lee and S. Schürch, In vivo determination of surface tension in the horse trachea and in vitro model studies 109 (1997) 81.
Isabey, D., see Heyer, L. 109 (1997) 29.

Kooyman, G.L., see Ponganis, P.J. 109 (1997) 73.
Kou, Y.R., see Chen, H.F. 109 (1997) 1.
Kuno, K., see Muro, S. 109 (1997) 205.

Lai-Fook, S.J., see Qiu, X.L. 109 (1997) 261.
Laquerrière, A., see Marie, J.P. 109 (1997) 127.
Lee, B.P., see Chen, H.F. 109 (1997) 1.
Lee, M.M., see Im Hof, V. 109 (1997) 81.
Lerosey, Y., see Marie, J.P. 109 (1997) 127.
Lerosey, Y., see Marie, J.P. 109 (1997) 139.
Levitzky, M.G., see Pellett, A.A. 109 (1997) 249.
Ling, L., E.B. Olson, Jr., E.H. Vidruk and G.S. Mitchell, Phrenic responses to isocapnic hypoxia in adult rats following perinatal hyperoxia 109 (1997) 107.

Liu, F., J.-Y. Wu, D. Beasley and J.A. Orr, TxA_2-induced pulmonary artery contraction requires extracellular calcium 109 (1997) 155.
Lofaso, F., see Heyer, L. 109 (1997) 29.
Looga, R., Reflex cardiovascular responses to lung inflation: A review 109 (1997) 95.
Lorenzi, A., see Sainsbury, M.C. 109 (1997) 195.
Loring, S.H., see Brown, R.E. 109 (1997) 177.
Lorino, H., see Heyer, L. 109 (1997) 29.

Marie, J.P., A. Laquerrière, Y. Lerosey, C. Bodenant, C. Tardif, J. Hémet, M. Tadié, J. Andrieu-Guitrancourt and D. Dehesdin, Selective resection of the phrenic nerve roots in rabbits: Part I: Cartography of the residual innervation 109 (1997) 127.
Marie, J.P., C. Tardif, Y. Lerosey, J.F. Gibon, M.F. Hellot, M. Tadié, J. Andrieu-Guitrancourt, D. Dehesdin and P. Pasquis, Selective resection of the phrenic nerve roots in rabbits: Part II: Respiratory effects 109 (1997) 139.
Martin, D., see Hodge, K. 109 (1997) 149.
Mathieu-Costello, O. and P.J. Agey, Chronic hypoxia affects capillary density and geometry in pigeon pectoralis muscle 109 (1997) 39.
Mathieu-Costello, O., see Ponganis, P.J. 109 (1997) 73.
McLoughlin, P., see Roe, S.M. 109 (1997) 117.
McNicholas, W.T., see Roe, S.M. 109 (1997) 117.
Mishima, M., see Muro, S. 109 (1997) 205.
Mitchell, G.S., see Ling, L. 109 (1997) 107.
Mörk, A.C., see Högman, M. 109 (1997) 65.
Muro, S., Y. Oku, K. Chin, M. Mishima, M. Ohi and K. Kuno, The effect of the level of ventilatory assist on the level of respiratory drive in decerebrate cats 109 (1997) 205.

Nagle, S.E., see Fahy, B.G. 109 (1997) 53.
Nolan, P., see Roe, S.M. 109 (1997) 117.

Ohi, M., see Muro, S. 109 (1997) 205.
Oku, Y., see Muro, S. 109 (1997) 205.
Olson, E.B., Jr., see Ling, L. 109 (1997) 107.
Olszewski, M.A., N.E. Robinson and F.J. Derksen, In vitro responses of equine small airways and lung parenchyma 109 (1997) 167.
O'Regan, R.G., see Roe, S.M. 109 (1997) 117.
Orr, J.A., see Liu, F. 109 (1997) 155.

Pasquis, P., see Marie, J.P. 109 (1997) 139.
Peever, J.H. and R. Stephenson, Day-night differences in the respiratory response to hypercapnia in awake adult rats 109 (1997) 241.
Pellett, A.A., J.M. Cairo and M.G. Levitzky, Hypoxemia and hypoxic pulmonary vasoconstriction: autonomic nervous system versus mixed venous P_{O_2} 109 (1997) 249.
Ponganis, P.J., M.L. Costello, L.N. Starke, O. Mathieu-Costello and G.L. Kooyman, Structural and biochemical characteristics of locomotory muscles of emperor penguins, *Aptenodytes forsteri* 109 (1997) 73.
Powers, S.K., see Hodge, K. 109 (1997) 149.

Qiu, X.L., L.V. Brown and S.J. Lai-Fook, Effect of hydration on lung interstitial conductivity response to electrically charged solutions 109 (1997) 261.

Robinson, N.E., see Olszewski, M.A. 109 (1997) 167.
Roe, S.M., P. Nolan, R.G. O'Regan, W.T. McNicholas and P. McLoughlin, Potassium and ventilation during exercise above and below the ventilatory threshold 109 (1997) 117.
Roomans, G.M., see Högman, M. 109 (1997) 65.

Sainsbury M.C., A. Lorenzi, E.M. Williams and C.E.W. Hahn, Erratum to A reconciliation of continuous and tidal ventilation gas exchange models 109 (1997) 195.
Schuen, J.N., O.S. Bamford and J.L. Carroll, The cardiorespiratory response to anoxia: normal development and the effect of nicotine 109 (1997) 231.
Schürch, S., see Im Hof, V. 109 (1997) 81.
Spengler, C.M., see Helbling, D. 109 (1997) 219.
Starke, L.N., see Ponganis, P.J. 109 (1997) 73.
Stephenson, R., see Peever, J.H. 109 (1997) 241.

Tadié, M., see Marie, J.P. 109 (1997) 127.
Tadié, M., see Marie, J.P. 109 (1997) 139.
Tardif, C., see Marie, J.P. 109 (1997) 127.
Tardif, C., see Marie, J.P. 109 (1997) 139.

Vidruk, E.H., see Ling, L. 109 (1997) 107.

Williams, E.M., see Sainsbury, M.C. 109 (1997) 195.
Wu, J.-Y., see Liu, F. 109 (1997) 155.

ELSEVIER

Respiration Physiology 109 (1997) 275–276

RESPIRATION PHYSIOLOGY

Subject Index

Bird
  pigeon, 39
Birds
  penguin, 73
Blood vessles
  pulmonary artery, TxA_2, 155
Brain
  higher centers, perception, 197

Capillary
  dimension, muscle, 39
Carbon dioxide
  ventilation, 15
Circadian rhythm
  cardio-respiratory effects, 241
Compliance
  respiratory system, 53
Control of breathing
  breathlessness, 197
  central drive, assisted ventilation, 205
  CO_2 resistive unloading, 15
  CO_2 sensitivity, pressure support ventilation, 29
  hypercapnic response, circadian rhythm, 241
  hypoxia, prenatal nicotine exposure, 231
  hypoxic response, 107
  onset of exercise, 219
  respiratory arrhythmia, 95

Denervation
  diaphragm, 127
  selective, diaphragm, 139
Development
  perinatal hyperoxia, 107
  prenatal nicotine, hypoxia, 231
Diaphragm
  phrenic nerve resection, residual innervation, 127
Disease
  COPD, 29

Edema
  airway wall, 65
  pulmonary, 261
Elastance
  respiratory system, 53

Embolism
  air, pulmonary receptors, 1
Enzyme
  muscle, 73
  oxidative vs glycolytic, diaphragm, 149
Epithelium
  bronchial, ion transport, 65
Exercise
  onset, ventilation, 219
  plasma K^+, 117
  ventilation, 15

Fluid
  balance, lung, 261

Hypercapnia
  sensitivity, circadian rhythm, 241
Hyperoxia
  perinatal, hypoxic response, 107
Hypoxia
  muscle, capillarization, fiber geometry, 39
  prenatal nicotine exposure, 231
  pulmonary vasoconstriction, autonomic nervous system, 249
  ventilatory response, perinatal hyperoxia, 107

Interstitium
  lung, solution flow, electric charge, 261
Ion transport
  bronchial epithelium, 65

Learning
  exercise ventilation, 219
Lung
  structure, elephant, 177

Mammals
  cat, 205
  comparative (7 species), 149
  dog, 1, 249
  elephant, 177
  horse, 81, 167
  humans, 15, 29, 53 117, 219
  man, 197
  rabbit, 65, 127, 139, 155, 261
  rat, 107, 231, 241

Mechanics of breathing
elephant, 177
intrapulmonary pressure, lung inflation, 95
tidal volume PEEP interaction, 53
transdiaphragmatic pressure, selective denervation, 139
Mediators
histamine, 65, 167
prostanoids, 167
TxA_2, 155
Muscle
capillarization, ultrastructure, altitude, 39
diaphragm, assisted ventilation, 205
diaphragm, enzyme activity, 149
swimming vs. walking (penguin), 73
Myoglobin
swimming vs. walking (penguin), 73

Obstruction
recurrent airways, heaves, 167
Oxygen
mixed-venous, hypoxic pulmonary vasoconstriction, 249

Paralysis
respiration, 139
Pattern of breathing
assisted ventilation, 205
gasping, 231
Permeability
lung hydration, 261
Pharmacological agents
dimethylthiourea, 1
ibuprofen, 1
nifedipine, 155
verapamil, 155
Phrenic nerve
resection, residual innervation, 127
response hypoxia, 107
roots, dissection, 139
Pleura
elephant, 177
Pulmonary circulation
arterial vasoconstriction, thromboxane, A_2, 155
hypoxic pulmonary vasoconstriction, autonomic nervous system, 249

Receptors
pulmonary, irritant, air embolism, 1
pulmonary stretch, 95
Reflexes
pulmo-cardiovascular, 95
Resistance
respiratory system, 53

Smooth muscle
lung airways, histamine, 167
Speech
breathing, 197
Sudden infant death syndrome
prenatal nicotine exposure, 231
Surfactant
upper airways, 81

Toxic agents
nicotine, 231
Trachea
surface tension, 81

Upper airways
resistance, histamine, 65
trachea, surface tension, 81

Ventilation
assisted, inspiratory pressure support, 29
assisted, respiratory drive, 205
CO_2 loading vs resistive unloading, 15
exercise, plasma K^+, 117
positive pressure, 95